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(54) **BLOOD COMPATIBLE ARTIFICIAL PULMONARY MEMBRANE**

(57) Abstract:

PURPOSE: To provide a gas-exchange membrane of an artificial pulmonary device or the like which has gas permeability for a long time and excellent blood compatibility for a long time, by surface-treating a surface coated with a blood compatible material of polyolefinic base material so as to provide the face having recessed/projected parts of specified sizes beforehand.

CONSTITUTION: A blood compatible artificial pul-

monary membrane which is formed in such a manner that at least one face of polyolefinic base material is coated with the blood compatible material is made a surface treated face so as to provided recessed/projected parts of average size of 0.01 to 2.0 μ m beforehand. The polyolefinic base material is made of polyolefinic hollow fibers and surface treatment is dipping treatment into sulfuric acid containing potassium permanganate. The blood compatible material is obtained at least by a reaction of diisocyanate, polysiloxane, and polyether polyol, that is a tertiary amino group-quaternized polyurethane or the like.

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